CIVIL TECH LABS

Accredited by **NABL** as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP.

06th May 2017

Dear Sir,

Sub: Testing of Materials.

As requested, tests on physical properties were carried out for the Materials supplied by you, for the work of **'Construction of culvert near Gangamma temple & fencing work in ward no. 01.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS

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TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of culvert near Gangamma temple & fencing work in ward no. 01.
Name of the Agency	Sri. Kumar Reddy
Date of Testing	06/05/2017

Tests	**Test Method As Per IS & Apparatus**		**Results**		**Requirements As Per IS 8112:1989**	**Remarks**
	IS Code	**Method**	**Value**	**Unit**		
Initial Setting Time	**IS-4031 (Part-5) 1988**	VICAT	48	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	**IS-4031 (Part-5) 1988**	VICAT	488	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	**IS-4031 (Part-3) 1988**	LE-CHATELIER	4	mm	Not More Than 10 mm	Satisfies Requirement

Note:

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4. The results are based on the test conducted on samples supplied by the customer.

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TEST REPORT

GAUGE TEST ON M.S.PIPE Nominal Size 38mm

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of culvert near Gangamma temple & fencing work in ward no. 01.
Name of the Agency	Sri. Kumar Reddy
Date of Testing	06/05/2017

Gauge Test

Nominal Size in mm	Guage	Measured Thickness in mm	Min. As Per IS : 1136-2008 in mm	Remarks
38	14	1.99	1.99	Satisfies The Requirement

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TEST REPORT

GRADATION TEST ON FINE AGGREGATES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of culvert near Gangamma temple & fencing work in ward no. 01.
Name of Agency	Sri. Kumar Reddy
Date of Testing	06/05/2017
Specific Gravity	**2.58**
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011), IS : 2386 (Part III)–1963 (Reaffirmed 2011)

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)				Grading Zone	Remarks
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV		
River Sand	10	**100**	100	100	100	100	II	Satisfies the requirement
	4.75	**98.4**	90-100	90-100	90-100	95-100		
	2.36	**85.6**	60-95	75-100	85-100	95-100		
	1.18	**75.4**	30-70	55-90	75-100	90-100		
	0.6	**48.5**	15-34	35-59	60-79	80-100		
	0.3	**24.8**	5-20	8-30	12-40	15-50		
	0.15	**7.8**	0-10	0-10	0-10	0-15		

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TEST REPORT

GAUGE TEST ON CHAIN LINK GAUGE-16

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of culvert near Gangamma temple & fencing work in ward no. 01.
Name of the Agency	Sri. Kumar Reddy
Date of Testing	06/05/2017

Gauge Test

Guage	Measured Thickness in mm	Min. As Per IS : 1136-2008 in mm	Remarks
16	1.59	1.59	Satisfies The Requirement

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TEST REPORT

GRADATION TEST ON COARSE AGGREGATES 40mm ↓ Graded

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of culvert near Gangamma temple & fencing work in ward no. 01.
Name of Agency	Sri. Kumar Reddy
Date of Testing	06/05/2017
Specific Gravity	**2.68**
Water Absorption	**0.28%**
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011), IS : 2386 (Part III)–1963 (Reaffirmed 2011)

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
80	**100**	100	**Satisfies the requirement**
40	**98.4**	95-100	
20	**55.4**	30-70	
10	**24.6**	10-35	
4.75	**3.5**	0-5	

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TEST REPORT

TEST ON STEEL ANGLES 65x65x6mm

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of culvert near Gangamma temple & fencing work in ward no. 01.
Name of the Agency	Sri. Kumar Reddy
Date of Testing	06/05/2017

Sl.No.	Description	Result	IS 2062-1999 & 808-1989 Min. Requirements	Remarks
1	Wt/m Length (Kg/m)	5.9	5.8	Satisfactory
2	Elongation (%)	25	23	Satisfactory
3	U T S (N/Sq.mm)	420	410	Satisfactory

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T-2654

To,

Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP.

25th May 2017

Dear Sir,

Sub: Construction of culvert near Gangamma temple & fencing work in ward no. 01.
Testing of cubes – Reg.

As requested the 07th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

For Civil Tech Labs,

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of culvert near Gangamma temple & fencing work in ward no. 01.
Name of Agency	Sri. Kumar Reddy
Grade of Concrete	M-15
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-1	150.03 X 150.06 X 150.0	22514	16/05/2017	23/05/2017	7	8.16	248	11.02	11.11
2		150.04 X 150.07 X 150.0	22517				8.17	250	11.11	
3		150.06 X 150.09 X 150.0	22523				8.19	252	11.20	

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of culvert near Gangamma temple & fencing work in ward no. 01.
Name of Agency	Sri. Kumar Reddy
Grade of Concrete	M-15
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-2	150.03 X 150.06 X 150.0	22514	16/05/2017	23/05/2017	7	8.15	244	**10.84**	**10.96**
2		150.02 X 150.07 X 150.0	22514				8.17	246	**10.93**	
3		150.03 X 150.04 X 150.0	22511				8.18	250	**11.11**	

Note:

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of culvert near Gangamma temple & fencing work in ward no. 01.
Name of Agency	Sri. Kumar Reddy
Grade of Concrete	M-15
Location	Covering slab
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	CC-Work	150.04 X 150.06 X 150.0	22515	18/05/2017	25/05/2017	7	8.14	250	11.11	11.23
2		150.05 X 150.06 X 150.0	22517				8.16	252	11.20	
3		150.03 X 150.02 X 150.0	22508				8.17	256	11.38	

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